

4.3 Connecting f' and f'' with the graph of f

first derivative test for local extrema of continuous functions

Oct 18-5:28 PM

find the local extrema:

$$y = (x^2 - 3)e^x$$

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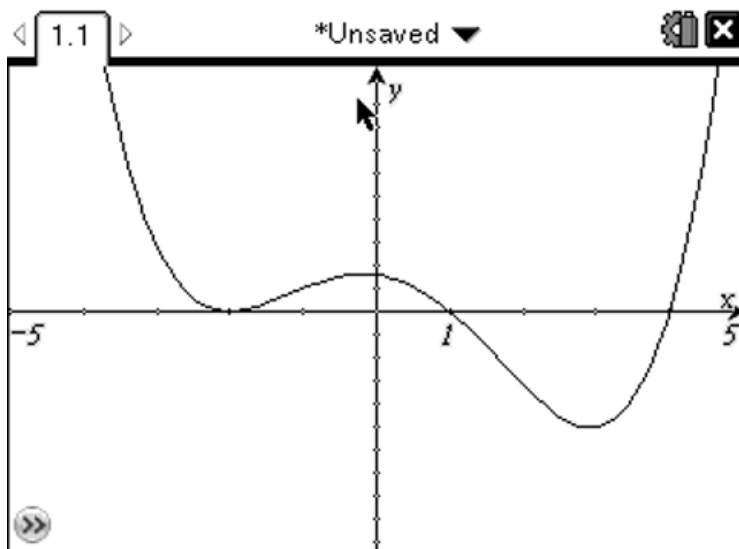
concavity test

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Find all points of inflection for the graph of $y = e^{-x^2}$

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This is the graph of f' . Sketch a possible graph of f



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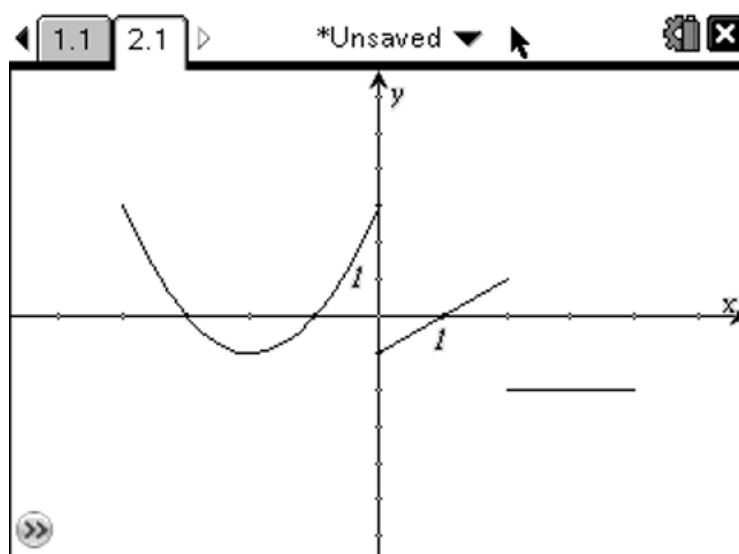
second derivative test for local extrema

Find the local extrema using the second derivative test

$$y = x^3 - 12x - 5$$

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Given the graph of f' sketch a possible graph of f



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